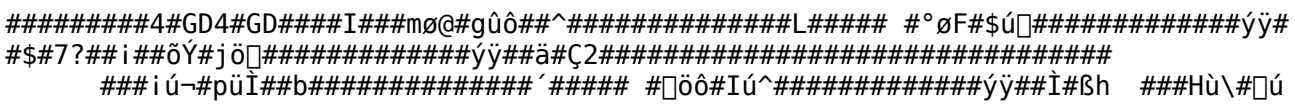

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ª#ÿÿ,###ÿÿ#####ÿ□#ÿÿd#########d#########·### Purpose & Scope of the ECC Task Force XXI - Tactical Internet - CSS Redesign Division XXI AWE □Proposed□ Div XXI CSS/Medical Initiatives Summary/Discussiono

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÷□û¶ □#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########?###PREPARE FOR AND CONDUCT LARGE SCALE EXPERIMENTATION TO ENABLE INCREASED LETHALITY, SURVIVABILITY, TEMPO, SUSTAINABILITY, TAILORABLE ORGANIZATIONS WITH ENHANCED DEPLOYABILITY, AND JOINT/COMBINED LINKAGES INCREASING THE VERSATILITY OF FORCE XXI. MAINTAIN COMBAT READINESS.O/O DEPLOY AND CONDUCT OPERATIONAL MISSIONS.#

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#Ø###Router-Based Comms Network Supports Infrastructure for Situational Awareness & C2 at Brigade and BelowComponents: EPLRS, SINCGARS, SDR, SIV, Routers (TMGs, INCs)SA & Messaging Provided by AppliqueManaged by NMTB2

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Planning/Configuration Some Over the Air (OTAR) Capability

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û##úô½ú#üËþÿÿ####ÿÿ#####ÿ#ÿÿd#########d#########}###SCALE.... (What we Know) 1200 Host Computers 950+ INC Routers 127 +/- TMG Routers 30 Routing Areas 8000 +/- IP Addresses#

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#=#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#2#######b###R - ROUTING AREA, NS = NAME SERVER,
BGP = BORDER GATEWAY PROTOCOL, OPSF = OPEN SHORTEST PATH FIRST

###ÿÿ#####ÿ□#ÿÿd#########d#########î###--This is the structure of the 1st BCT.--Two balanced mechanized task forces, a light battalion, and a unique aviation task force.--Units highlighted in blue are impacted by the Division redesign, which is also being experimented with.

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#□üÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########N###- This changed the composition of the 4th FSB (now HHC, 2ea FSCs, BSC, Med Co)

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#=ýÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########T###   - Reduced the HHCs of the Ar &
Mech In Bn□s due to the mvmt of the log structure

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#Ñþÿÿ####ÿÿ#####ÿ#ÿÿd#########d#########P###     - HHC & 3 Line Companies
(Personnel & Equipment)...plus 6 SEEs & 6 VISMODs
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#J###     - Deletion of MANPADs platoon from Hvy Btry, 1-44 ADA; 6 MANPAD Teams
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#Ê#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########N###    - Added a 77 personnel BCT
Recon element under the C2 of the BCT Commander
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#□#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########R###Mortar Plt- Deleted AR BN mortars;
added 3 guns and FDC to Mech In Bn Mortar Plt

###ÿÿ#####ÿ□#ÿÿd#########d#########B###--Summary of the major redesign changes impacting this AWE. All discussed in detail during the brief.--CSS redesign moves all the logistical personnel and medical personnel with their equipment from the HHCs of the Armor and Mech battalions to the Forward Support Battalion. We’ll discuss this in greater detail when we get to the CSS units.--Engineer redesign changes equipment, structure and personnel. Discussed later.--ADA deletes the MANPADs platoon from the heavy battery and adds an Avenger platoon. --Bde Recon troop was directed to be experimented with by Gen Hertzog. Basic guidance was 77 man, HMMWV based.--3x6 arty is not a division redesign, but the way all artillery is being reorganized.--Deletion of the Armor bn mortar platoon was an Knox proposal to pay for brigade recon troop in a 13k division. Benning wanted enough mortars to be able to have a section supporting mech companies cross-attached to tank battalions; ended up with 9 guns and 3 FDCs in mech bn mortars. Purely a space saving action (saves 23 personnel). Confounds logistics, and fire support.

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###ÿÿ#####ÿ□#ÿÿd#########d#########&###* Bullet one... The single biggest piece of division redesign is the merging of AR & MX Bn HHC log elements with the FSB to form the new FSC. The new FSC will in turn provide it’sdedicated AR or MX Bn with all its support less personnel support. Division redesign essentially does not effect personnel support.* Bullet two and three...Of great significance is the fact that we will have two log systems... one for FSC’s to support AR/MX Bn’s and one for the BSC to support the other units (Lt IN, FA, EN, etc.)* Bullet four...The concept reduces personnel & equipment and in turn relies heavily on battlefield distribution. Let me provide two examples:1. CL IX coming into the division will now go directly to the FSC tech supply operation for processing by SARSS-O. This process dramatically improves supply performance by eliminating the handeling required at the MSB and again at the FSB.2. The support for Class III bulk under this new concept calls for two pushes daily to the FSC...one will be provided by the FSB and one will be provided by the Corps.

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Çøÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########*###Current FSB & HHC, Ar & Mech In
Structure

###ÿÿ#####ÿ□#ÿÿd#########d#########ý###* This slide is simply designed to show the old and new FSB and AR/MX Bn HHC structures. The FSB has more than doubled in size while the HHC□s are reduced by two thirds. Remaining in the HHC□s is theCmd Gp, Bn staff, Co HQ, commo section and the scouts.#

###ÿÿ#####ÿ□#ÿÿd#########d#########ã###* Depicted here is the Bde Log Battlespace. From front to rear you have the co trains and just behind them is the FSC□s Bn Log Center which occupies what was the combat trains. The FSC also includes those elements that were previously in the field trains. The Bde Log Center is essentially the FSB operatind out of the BSA.* The most significant change is that for the first time you have a single element, the Fwd Log CP forward on the battlefield providing C2 to all CSS elements.e

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############ÿ□#ÿÿd#########d#########N###* Applique   (CSS Functionality)* CSSCS
* Wireless STAMIS* SARSS-O* PSSCS
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############ÿ□#ÿÿd#########d#########r###* CSSCS* Prisoner of War Info. System*
Soldier Personnel/Medical   Tracking (MARC)* Medical Digital Assistant

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#####9#Đÿ##Pû@ÿª#f##############ÿ#ÿÿd#########d#########À###* Battlefied
Distribution Assets   (Velocity Management)    - Movement Tracking System    -
RF Tags/Interrogators    - PLS Trk Co (-)    - Ammo Modular Plt (-)    - Contact
Maint. Truck
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###ÿÿ#####ÿ□#ÿÿd#########d#############* Would like to talk to each enabler and its significance to TFXXI.* We will be experimenting with enablers during 2d Bde□s NTC rotation this summer. PWIS and Soldier Personnel/Medical Tracking (MARC) are unique to 2 Bde□s rotation. PWIS , Soldier Personnel/Medical Tracking, and Medical Digital Assistant all us the MARC to automate POW, soldier and patient tracking. What the 2 Bde is doing will be the first experimentation with MARC in an NTC environment.* Now I would like to discuss each of the TFXXI enablers starting with Applique.   -- Applique was discussed earlier, but the log functionality it contains will improve CSS awareness. responsiveness, and flexibility on the battlefield.   -- CSSCS is one of the ATCCS systems , its software and functionality will not change for TFXXI. However, CSSCS will receive a newer faster CH-2 V2 computer.   -- Wireless STAMIS will provide wireless connectivity between theULLS operator and the SARSS ansd SAMS site. Will look at this on a chart on a up coming slide.   -- PSSCS will provide digitized strength reporting from weapon platform to Bde using FMS laptop computer.   -- On the next slide we will discuss the Battlefield Dist Assets and following that slide we discuss the Medical and Personnel initiatives.

###ÿÿ#####ÿ#ÿÿd#########d#########Ü###* This slide depicts the Battlefield Dist enablers on the battlefield. -- Ammo Mod Plt shown in the lower center builds combat configured loads on PLS flatracks for systems like the M1 and M109. The flatracks are then loaded on the PLS truck and moved forward to an ATP or company trains location for up load by the weapon crew. -- The MTS and DVE will be placed on selected platforms for the AWE. These are the PLS, 5 ton Tractor, and HEMTT fueler. The MTS provides the capability to identify the position, track progress, and communicate with vehicles. MTS Control Stations located at critical nodes provide C2 . Those equiped with the DVE allow operators to see under conditions of limited visibility.   -- RF Tags will be used in two roles for tracking supplies and equipment during the AWE. First selected containers belonging to the DISCOM will be tracked from homestation to the NTC. This is the traditional role used by RF Tags. We will also experiment with using Rf Tags to track supplies in the Division and Bde areas of operations. -- The BCT will also be supported by a PLS Truck Co which will be used to haul all classes of supply. This is a departure from current doctrine which only uses PLS for ammunition distribution.

###ÿÿ#####ÿ□#ÿÿd#########d#############This side depicts the battlefield location of the four medical initives and the one personnel initiative.From the top: The enhanced armored ambulance is a modified C2V which is being tested as a replacement for the M113. It will provide greater survivability and mobility while improving patient care and load capacity.Telementoring is a voice only system which allows the front line medic to communicate with the Dr. and PA in the BAS. This is an MC4 initiative to use technology to place expertise farther forward on the battlefield.Medical Digital Assistant is simply an automated field medical card and patient record which is being tested to improve patient tracking through interface with the PSSCS. Teleconsultation is also an MC4 initiative which will allow the BAS and Medical Company to pass both voice and digital information between themselves and the next level of CHS. Again the objective is to improve survivability of the wounded or ill soldier by pushing expertise farther forward on the battlefield.The Personnel Service Support Control System (PSSCS) initiative will link imbedded Personnel Strength Reporting Messages in Applique with a laptop computer with enhanced management/tracking and accounting software to provide the Commander more accurate combat power information. #

###ÿÿ#####ÿ□#ÿÿd#########d#########¶###* This slide appears very busy, but is quite simple. Wireless STAMIS will use two means to move data electronically on the battlefield. First data will be move in a wireless LAN for distances up to 4KM. For distances over 4KM we will use MSE via MSRT or SEN. Wireless STAMIS eliminates the need for dispatching soldiers all accross the battlefield. Additionally, data can be moved more rapidly and more often.. thus being more responsive.

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#########d#########L###  TO DISCUSS THE □PROPOSED□ LIST OF DIV XXI    AWE
CSS/MEDICAL INITIATIVES
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[####### #######□#ÿÿd#########d#########>###VALIDATE:FORCE XXI DIVISION ORGANIZATIONAL STRUCTUREFORCE XXI COMBAT SERVICE SUPPORT CONCEPTFORCE XXI DIVISION OPERATIONAL CONCEPTFORCE XXI BATTLE COMMAND & INFORMATION OPERATIONS REQUIREMENTS PRODUCTS INCLUDE:DIVISION XXI DOCTRINE, CONCEPTS, AND TTPDIVISION TOC DESIGNSINTEGRATION OF ATCCS SYSTEMS

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##ÿÿ####ÿÿ#####ÿ#ÿÿd#########d##########BCTP SEMINAR,  21-25 JULY 97RAMP-
UP/SIMEX IN SEPT 97BCTP LIKE EXERCISE,  9-13  NOV 97DIVISION, BRIGADE, AND SEP
BN DIGITIZED TOCS IN THE FIELD
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#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#2#######C###STEADFAST AND LOYAL...Leading
America□s Army into the 21st Century!#

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      [###############□#ÿÿd#########d#########ì###SCENARIO BEING DEVELOPED BY
BLITCD AND TRAC-SCENARIOINTENTION IS TO USE LANTICA (PW96 DATABASE)1998 BLUE AND
RED FORCES SCENARIO DESIGN WILL CONSIDER:STUDY ISSUES THAT NEED TO BE SCENARIO
DRIVERSTHREAT CONCEPT TO DRIVE ANALYSIS

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equip/functions to Div XXI                CASCOM
URS/SRCs    -PLS & PLS Enhancements
     -Enhanced Armored Ambulance     -STAMISs (SAMS 1&2; SARSS-O; ULLS-G,S4,A;
Wireless STAMIS; DAMS-R)     -Tactical Quiet Generators     -Family of Medium
Tactical Vehicles     -Load Handling Equipment     -Contact Maintenance Truck
-Forward Repair Systems-Heavy     -Hercules (Improved M88)     -MARC (Multi-
technology Automated Reader Card)2)  Maintenance MARC Impact    Relooks MARC
based off of Div XXI         ORD C&S
Equip density listing...could increase
# of Maint MOSs in Div XXI
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Relooks Aviation Support                             CASCOM LCD
within Div XXI 4)  EAD Unit/Equipment       Builds CORPS CSS modularity
CASCOM     Experiments (5ea)            insertion into Division XXI    -Corps
Support Group
* CASCOM     -Modular Ammo Co
* ORD     -Modular Maint Co(?)-2ea
* ORD     -Modular Qm Co
* QM     -POL Supply Co
* QM      -Pipeline Terminal Op Co
* QM     -Water Co
* QM      -Support Cmd Early Entry
* CASCOM         5)  CSS Concept Initiatives   Main focus is Div level; limited
focus           CASCOM      (7ea)                                       on EAD
and BDE & below.                            TC C&S      -RSO&I
-AMP simulation feed of TPFDD into CSSCS
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Initiatives continuation     -Battlefield Distribution          -Assesses BD
functions/control of trans/supplies at      CASCOM LCD
your Div Main CP, TAC 1&2 CP, and BDE level
(looks at CSSCS ties & Hub Mgmt...assesses CSS
footprint fwd of the Div Main)     -Velocity Management            -Implements a
EAD & lower approach for increasing  CASCOM LCD
the responsiveness & efficiency of Army Logistics
Systems (will use the OPLOG planner)     -Manning Functions
-Looks at tieing SIDPERS/Force XXI Manning                      SSI
Systems into CSSCS...tracks Division Manning capability     -Finance Battlefield
-Inserts Defense Finance Battlefield System into Div             SSI
XXI    -Wartime Executive Agent      -Assesses Div Level CSS structures of
providing Title  CASCOM LCD      Responsibility (WEAR)          10 Logistics
(Army Responsibility) to other services/
forces (focus is on assessment of Div Trans C2 &
control)
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(3ea)   -Medical Situation Awareness   -Looks at the availability of
Medical Specific   AMEDD C&S   (MSA)
Information generated by Appliqué
simulation (CBS/CSSTSS) into ATCCSs   -Surgeon
Section Redesign   -Looks at functionality of the Div & BDE
AMEDD C&S
Surgeon sections in planning & executing
Div Med Spt.   -Theater Army
Medical Mgmt   -Brings Theater Med Logistics down to the   AMEDD C&S
Information   Medical Co□s system within Div
XXI...links   to
CSSCS. 7) TEC Integ Equip Repair   -Inserts maint prognostics (DDAP, COBOA,
ORD C&S   (TIGER)   & FAS-C) into
specific Div Combat Pacers#

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      þý############ÿ#ÿÿd#########d#########Ì###--MOS Consolidation Study
-Consolidates maint mechanics into Systems       ORD C&S
mechanics to be more flexible on the battlefield
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-Inserts maint diagnostics (CTS-Sport,   ORD C&S
Circuit Card Repair, Electro Optics Test
Facility, Bay Station Test Facility, Turbine
Engine Diagnostics) down to FSC level9) Div XXI CSS Cmd &   -Assesses
Commanders and Staffs ability   CASCOM LAD   Control
to plan, conduct, and support Combat
Operations (focus being Div CSS tools, mgmt,
& situational awareness)10) Road Space Mgmt   -Assesses the mgmt & C2
of Road Space   CASCOM LCD   Study
at the Div level...past exercises have shown
Divisions moving 190km□s without Div Rear
boundary changing & routes of march conflicting
with CSS MSR usage. Study will reassess security of
extended LOC□s with TRADOC CAC.A

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-Assesses the validity of Class V projected         CASCOM LCD        Study
wartime expenditures...past PWs/CAMEXs
have shown Direct Fire systems now account
for +/- 10% of kills; where as Artillery/Aviation
accounts for 75% of kills.  Issue could impact
method/means/storage concepts for Class V...
tied to CSS redesign.
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      Úûÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########X###  Multiple Tasks still
required...will evolve into a □Work  Breakdown□ tasking document
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2#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########î### Develop, coordinate, publish Div XXI Initiatives, Issues, &   Funding □Integrated Packet□ to TRADOC by 1 June 96 Determine Div XXI AWE Organizational Structures (validate   SRCs & URCs) Develop & publish the CSS/Medical TTPs for the Div XXI AWE Develop; Integrate with the rest of TRADOC doctrine; and   publish the CSS/Medical Concept of Operations in support of   Force XXI Division Redesign Coordinate & integrate CSS/Medical Systems Architecture with   PEO-C3S

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q#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########Ë### Assist in the development of
CSS/Medical functionality in the    Div XXI AWE TOCs  Develop, coordinate, &
publish the □CSS/Medical□ portion of the     Div XXI AWE Collection Plan  Assist
in the development of the actual Div XXI AWE Scenario  Develop & integrate with
NSC; the Simulation Architecture for    the Div XXI AWE Initiatives/Objectives
Develop, coordinate, & Integrate the CSS/Medical BOS C2     missions & functions
for the Div XXI AWE#
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n   #############ÿ□#ÿÿd#########d############# TFXXI AWE sets the stage to validate CSS Redesign   (FSC/FSB) concept and the future of the Tactical Internet. TFXXI CSS/Medical Enablers essential to enhancing Log   Support and Log Awareness CSS/Medical □Integrated Packet□ of Initiatives, Issues, & Funding constraints □key□ to establishing a strong Div AWE   foundation Multiple major CASCOM missions associated with Div XXI   AWE Will take a COMBINED CASCOM & III CORPS (4ID, 13th   COSCOM) Approach to resolve Div XXI AWE tasks

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